

# The Oredigger

COLORADO SCHOOL OF MINES

Volume 32

GOLDEN, COLORADO, TUESDAY, OCTOBER 9, 1951

Number 4

## Seniors to Leave on Fall Field Trips

### Undergraduates Will Travel Far and Wide to Gain Technical Experience

Senior fall inspection trips have been announced by the option departments. They vary in itinerary from visits to Denver locations to long jaunts in Utah and New Mexico. Geophysicists and petroleum refiners and production men will stay within daily traveling distance of Golden. Petroleum geology students will spend the major part of their

time in Utah while mining geologists tour Colorado. Metallurgists will also stay in this state, but coal and metal miners will get down to New Mexico and southern Colorado.

Approximately 230 seniors will make the trips leaving the campus with a much depleted population.

#### Geophysicists will commute

Seniors and graduate geophysicists students will travel daily to the Malachite mine for their senior trips. In this area, which is about 15 miles south of Mt. Vernon canyon, the geophysicists men will do magnetic and self potential electrical work.

Mr. Holmes and Mr. Rogers will be in charge of the group, which will consist of approximately 32 men. The Malachite mine is part of the diffuse working of this area, and the problem will greatly aid the future geophysicist in the correlation of classroom and field work. The men will travel each morning

#### Mining Geologists Stay in State

Professor Truman H. Kuhn of the geology department will head the senior mining geologists on their trip this year. He will be assisted by George Fraser, instructor in geology.

The mining geologists will leave Golden Sunday, by bus, for Leadville where they will spend their first night. Monday morning they will take in the New Jersey Zinc Co.'s mine at Gilman, Colorado, then they will journey to Glenwood Springs

(Continued on page 4)

#### STAFFERS WILL FEAST

Tonight about 45 men of The Oredigger staff will be wined and dined at Dud's in downtown Golden. Fried chicken and French fries will be the main cuisine of the evening.

All staff members are asked to be at Dud's by 6 p.m. for a short business meeting. Following the brief business discussion which will be hastened by the draft of a few beers, the staff will be king-ly treated with Dud's best selections—fit for any gourmet—in payment for their faithful work on The Oredigger.

## Freshmen to Pick Leaders Tomorrow

This week the Mines freshmen nominated candidates for the offices of president, vice president, secretary-treasurer, and dance chairman. The men were nominated in the weekly orientation period which is under the direction of freshman adviser, William Colburn. All nominees have outstanding records in high school, both in athletic and scholastic fields.

Candidates for freshman president are Walter Camack, William Campbell, Patrick Dennis, and John Fidel. Camack was valedictorian of his senior class at Pueblo, Colorado; he held five class offices in high school and was very active on his high school football, track, and wrestling teams. Walter also served as sports editor of his school paper

and as president of the National Honor society.

A former student of Salida high school, William Campbell was president of his freshman and sophomore classes. Campbell competed in sports during high school and received varsity letters in football, basketball, and track. During his senior year, Campbell was elected president of the Salida high Student council and was voted the outstanding member of his senior class.

Patrick Dennis, a freshman from Denver, Colorado, was

(Continued on page 7)

## Prominent Coal Miners Inspect the Colorado Mines Campus



From left to right: Henry C. Woods, Prof. Keenan, George F. Klein, Dr. Edmund Speare, Maurice D. Cooper, James D. Reilly, Davis Read, Stanley B. Johnson Jr., R. W. Beamer.

Colorado Mines was host to the Vocational Training and Education committee of the National Coal association for two days, October 5 and 6, as prominent members of the coal mining industry learned of the curriculum in

coal mining offered at this school. The committee, made up of members who are actively engaged in the production of bituminous coal from places all over the

country, has met at Ohio State university, West Virginia university, Missouri School of Mines, and University of Illinois in previous gatherings.

The committee members attended a luncheon on October 5 in the Holland House and were officially welcomed and addressed by President John Vander-

with some of the students in the mining options from Mines at a dinner given at the Beta Theta Pi social fraternity.

Henry C. Woods of the Sahara Coal Co. acted as chairman of the committee. Other members present were R. W. Beamer, Stanley B. Johnson Jr., George F. Klein, Roland C. Luther, Davis Read, James D. Reilly, L. I. Cothern, Dr. M. Edmund Speare, and Maurice D. Cooper.

## Prospector Takes Students' Photos

by Kurt Linn

Today and tomorrow are the last two days that Mr. Jafay will be on the campus. Postcards with appointment times have been sent out for those students who did not sign the appointment sheets.

About 60 students have missed their original appointment times. They should come to the studio between 2:15 and 4:15 p.m. today or Wednesday to have their pictures taken.

Many students have the mistaken idea that to have their Prospector picture taken will cost them extra money. The photographic fee has already been paid through the student publications assessment, which was collected at registration. A student who does not have his picture taken is merely declining a service for which he has already paid, and he omits himself from the class pages of the Prospector.

Miners are requested to be sure to see their finished portraits at the studio at the scheduled time in order to avoid congestion.

Social and honorary fraternities and other campus groups will have their pictures taken during the noon hours on Monday, Tuesday and Wednesday, October 22 through 24, according to present plans.

## BLASTER BULLETINS

Tuesday, October 9—

Oredigger assignments, 3:30 p.m., Publications building.

Prospector pictures, 2 through 11 p.m., room 273, mining building.

SEG meeting, 4:15 p.m., room E113, Berthoud hall.

Band, 4:20 p.m., room 286, physics building.

M club meeting, 7 p.m., room 154, Berthoud.

Blue Key meeting, 7:30 p.m., room E113, Berthoud hall.

Wednesday, October 10—

Prospector pictures, 2 through 11 p.m., room 273, mining building.

Glee club, 4:10 p.m., Guggenheim auditorium.

Prospector business staff, 4:10 p.m., Publications building.

Theta Tau meeting, 7 p.m., seminar room, Berthoud hall.

Football movies, Mines vs. Western State, 7:30 p.m., Integral club.

Thursday, October 11—

International council, 4:10 p.m., Guggenheim auditorium.

Band, 4:20 p.m., room 286, physics building.

Rally-torchlight parade, 6:45 p.m., in front of Guggenheim hall. To be followed by beer bust.

AIME meeting, 7 p.m., room 179, mining building.

Friday, October 12—

Football—Mines vs. New Mexico A&M, 8 p.m., Brooks field.

Saturday, October 13—

Football—B squad vs. Colorado State, 2 p.m., at Greeley

Sunday, October 14—  
Soccer, Mines vs. Colorado college, 2 p.m., at CC.

# Rallies Showing Improvement

Last Thursday night's rally was one of the best that this school has had in many years. Quite a few Miners, despite the rain and fog, turned out in front of Guggenheim for the torch light parade which preceded the skits and team presentation in the field house.

Perhaps the success factor lies in crowd participation. Every Miner likes to be doing something, and the thought of carrying a burning torch through town must certainly appeal to him. The skits were well conducted, clean, and humorous, and it might be good to remind other rally participant organizations that their money is at stake on the future productions.

Blue Key extends its thanks to the Golden merchants for the use of their store windows in advertising the rally. Undoubtedly many of the townspeople who were present at the Mines spirit-gathering learned of it through this means.

This Thursday night another torch light parade rally is planned. Three organizations have been working on the skits for quite some time, and the entertainment promises to be of the highest calibre. All that is needed now is you, Miner, so be there Thursday night and make this cheerfest the best one all year.

# Support the Freedom Crusade Drive

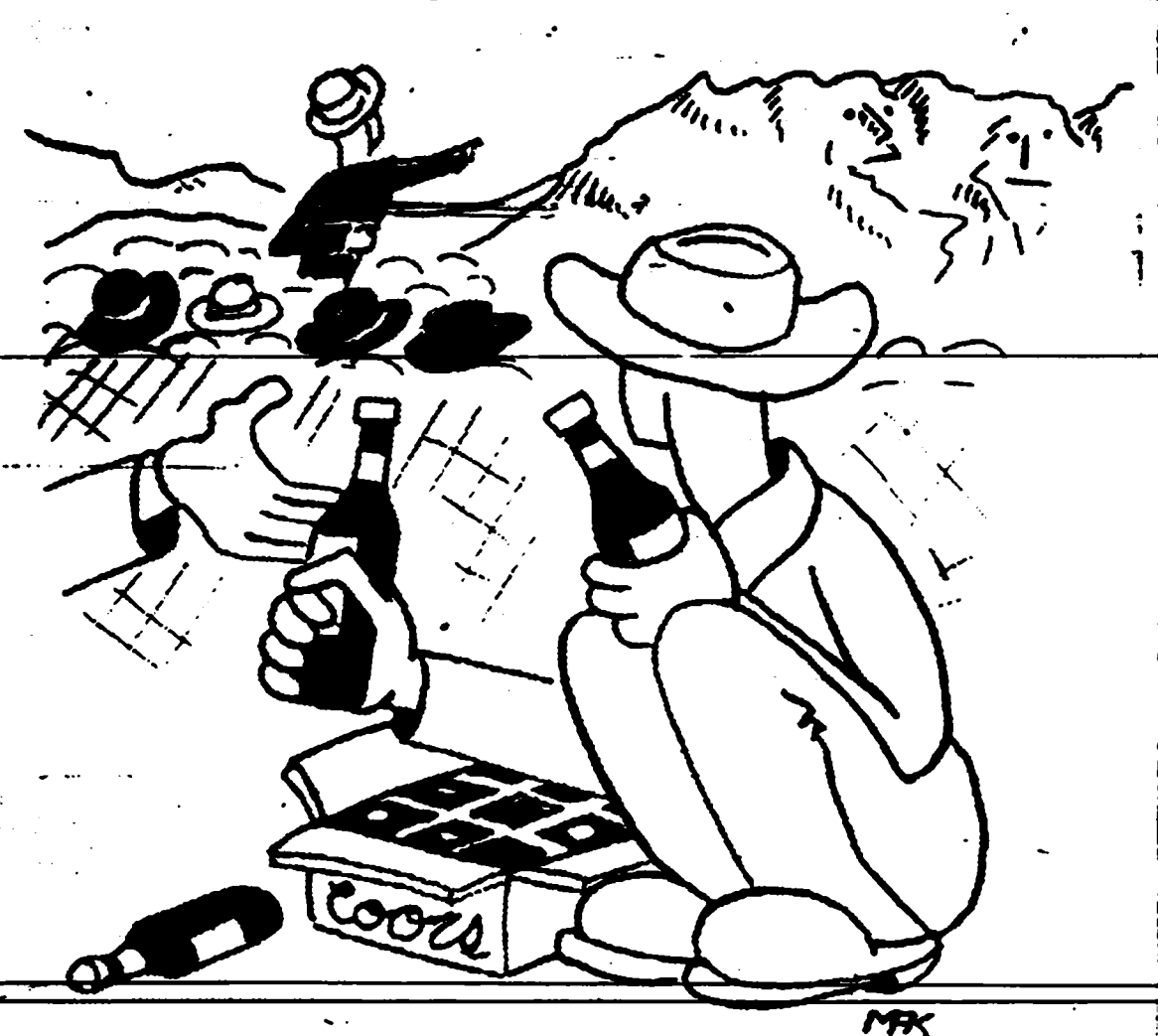
Today the Crusade for Freedom drive will start on the Mines campus, and Blue Key men will be outside by the plaza bulletin board until Thursday accepting donations for this worthy cause.

The quota for Mines is not large—a mere two bits per student. There isn't a Miner in school who can't afford that small fee for such a worthy cause. All over the world the spark of freedom is being fanned with Freedom Drive money; to let the flame go out would be disaster.

The individual fraternity houses on the campus are making lump sum donations to the fund, and the Blue Key operated Freedom drive table has been set up for the students who do not have this channel for giving money.

Mines quota is small this year, but let's have every man give that 25 cent piece as his share in the Crusade for Freedom drive.

# Are Senior Trips Worthwhile?

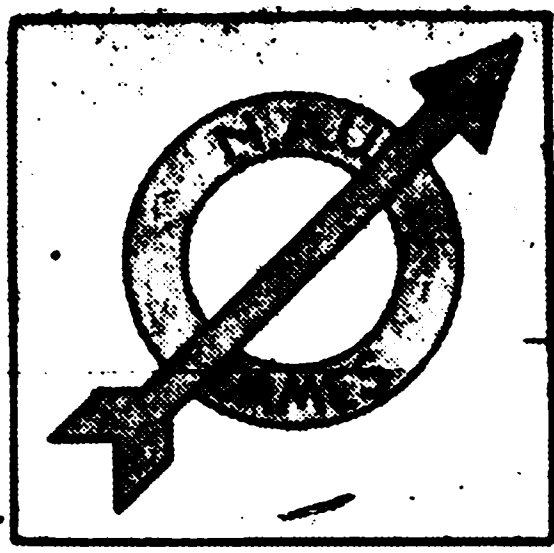


# SENIOR TRIP?

Next week the seniors will take leave of the Mines campus to travel throughout this state on their annual Fall inspection trips. If constructive work is done on all of these field tours the plan for having them is a good one. However, if the jaunts turn out to be just a one week vacation in the Fall semester, there would seem to be no use for them.

In the past many students felt that both the Fall and Spring inspection trips were just a plain waste of money. If the case, perhaps it would benefit the school and the students alike to drop the tours entirely. On the other hand, if the excursions help the senior preview his future in his particular mineral industry field, the journeys could be called successful.

Many questions will be answered when the trips are completed next week.



by Vi Chamney and Carolyn Lindberg

New Dames were initiated at a very impressive ceremony last Tuesday night, and at the business meeting which followed, the program and activities for the coming year was outlined.

Joyce Johnson reviewed the programs planned for the semester, and many interesting speakers will appear at the future meetings. The first speaker, Paul H. Keating, geology professor, will lecture at the next meeting on October 16. At that time he will tell us about his famous gem collection and will show us some very beautiful specimens. This is our chance, girls, to see the gems that our husbands have been telling us about.

Tonight is the first meeting for all those who are interested in bridge. Everyone is invited, experts and novices alike. If you would like to learn the game, Bridge club is certainly the place to do it. That meeting is tonight in the Integral club at 7:30 p.m.

# MUSEUM NOTES

by J. Harlan Johnson, Curator

In order to properly use and evaluate the museum, it is necessary to know what we consider to be the functions and purpose of the museum. These are listed below:

1. It acts as a repository for the school's permanent collections of geological material.
2. It accepts gifts, makes exchanges and in other ways obtains material to add to these collections.
3. Exhibits are prepared and placed on display to illustrate geological features, history, processes and materials, and the geology of certain areas, districts and mines. These are especially designed to illustrate courses taught by the geology department, especially general geology, mineralogy, petrography, historical geology and ore deposits. A few temporary exhibits are shown from time to time to display spectacular recent acquisitions, or for special events such as Engineers' Day, scientific meetings, etc.
4. The museum also maintains large non-exhibition research reference collections of minerals, ores and fossils. These furnish a valuable background for graduate work but are not open to the general public.
5. The museum sponsors a few popular lectures and local scientific meetings each year.
6. As a result of the museum activities and research by the curator, some scientific papers are prepared and published each year.

In brief, the museum is designed to assist the teaching work of the school. It has numerous possibilities for service. During recent years, the curator and other members of the geology department have had to spend most of their time in teaching with the result that they could only devote a small amount of time to the museum. However, some progress has been made each year and we hope to continue gradually improving.

# Letter to the Editor

Stew Chuber  
Editor

At last I have seen economics applied to CSM. The profs claim that a double in price more than halves the people able to afford the commodity. Where is there a better example of this than the pool tables in the Integral club?

Last school year a person had to get up early in the morning to get his hands on a cue stick. Now it is just the opposite. Maybe I forgot how to integrate my calculus, but it appears that three tables at \$20 per hour is more than one table at \$40 per hour.

Perhaps the additional work of retipping the cues and the money collection every hour occurred by full tables makes up for the difference of income.

The operation of our club seems to be sad. I bought a deck of cards and left them in the club at noon. At 4:30 p.m. they were still in the club, but bright and early the next morning not even the joker was around. Hope I donated to a worthy cause.

E. N. BENNETT,  
Senior.

Editor, The Oredigger

After reading the feature on Colorado Woman's college coeds in the September 25 issue of **The Oredigger**, I sat down and repeated over and over again an old saying taught to me about the art of good manners. "If you can't say something nice about someone, don't say anything at all."

One CWC coed made the comment, "Anyone who would write such an article made fun of or hurt no one but himself—he only showed his ignorance."

Webster says, "Ignorance is intellectual crudeness." How crude can you get?

This question was put to me: What do CWC girls think of the Miners? In order to stick to my point of view, I'll put it this way. The Miners that CWC women would consider dating are the gentlemen of your crew.

And whom are these gentlemen? They are you men who consider your appearance important, have some conception of manners, are good sports, clean-minded and prompt. What more could any girl ask?

DORIE ANDERSEN

# Good Pickings Found at CU

by Lloyd Best

Did you know?—

1. That Colorado University, due to a high number of men being called up into the service, had an extraordinary freshman class of 1300 girls and 700 boys!
2. The Boulder-Denver Turnpike is due to open within the month. The Turnpike is easily accessible by 44th Street from Golden to Wadsworth, and north on Wadsworth through Arvada.
3. The danger of C.W.C. coeds dynamiting the roadway is extremely poor this year due to a rather small supply of demolition equipment at the "Finishing School."

It is clearly brought to mind that there are a great number of freshman girls at CU—and upperclasswomen too—that are dying to go out with Miners. In other words, they are desperate and will go out with anything.

The Old Men's Dorm has now been converted into a freshman woman's dorm, with McKenna, Harding, Lester, and Regent's halls still humming right along.

Not to be forgotten are the various sororities to be found on the campus, among the best being the AOP's, Chi O's, and the Alpha Phi's.

With the present dirth of football games and their attendant campus functions on the CU campus, a Miner is a fool not to look into what appears to be an extremely interesting situation.

# LOST AND FOUND

During the last week the Lost and Found department has received a black automatic pencil, and 3 jackets which were found in the rooms of the math department in Guggenheim. These articles may be claimed at the Lost and Found department in the registrar's office. Last week's Oredigger has a list of the articles turned in the previous week.

# The Oredigger

COLORADO SCHOOL OF MINES

|                             |                             |
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# Homecoming Rules Announced For Floats and Decorations

by Dick Banks

Now is the time to start working on those Homecoming necessities. Miners! Get the plans for that frictionless soap box racer off the drafting boards and into the assembly rooms. Start thinking of unique floats and house decorations with a "Beat the Bears" theme. All of you intramural runners stay in shape for that exhausting cross country race, and for Sig Gams and Theta Taus to start looking for burros that won't have to be carried around the track.

Homecoming activities will be initiated Friday afternoon, October 26, by the soap box derby down Washington hill between 15th and 13th streets, and, except for campus parties, will terminate on Saturday night after the Homecoming dance. "The pattern for Homecoming activities will be similar to that of previous years," John Servatius, Homecoming program chairman, declared; he added, "A complete chronological schedule for the Homecoming week end will be released later."

## Soap Box Rules

For you builders of better bodies, here are the revised specifications for the 1951 soap box racers:

1. Car plus rider must weigh not more than 300 pounds.
2. Cost of construction must not exceed \$6 (steering assembly and running gear excluded).
3. Car must have four wheels.
4. Maximum wheel diameter of 12 inches.
5. Minimum length between axles of 40 inches.
6. Minimum width between wheels of 30 inches.

Requirements for entrance into the race are as follow:

1. Car and rider must report to judges or officials at the starting line not later than 3:30 on the day of the race.
2. Cars must be inspected and approved by the race official.
3. Car must be built and driven by a group or organization on CSM campus. Faculty included.

Drivers in the derby will draw numbers for a starting position, and will race against time in a series of two-car heats. Starting numbers will be drawn just before the start of the race, and the number of entries per organization will be unlimited.

## House Decoration Rules

Saturday morning the house decorations will be judged by a committee as yet unnamed. The rules for the contest include:

1. The theme of the decorations

shall be "Beat the Bears."

2. Cost of the materials must not exceed \$25.

3. House decorations must be completed by 10 a.m., Saturday, October 27.

Judging of the houses will begin at 11 a.m., and the parade will get under way at 1:15 p.m. Rules for the floats that will take part in the parade are as follow:

1. The cost shall not be greater than \$15.

2. No specific theme is required.

Wear those hats, Frosh!

## Prospector Picks Curzon As Business Manager

This week the Mines board of publications, lead by director LeRoy W. Goodwin, approved the application of James E. Curzon, a junior in the petroleum production option, for assistant business manager of Mines yearbook the **Prospector**. Curzon will take over the assistant business manager's position this semester, and will help business manager George Schenk with his duties.

There will be a meeting Wednesday, Oct. 10, at 4:10 p.m. at the Publications building, of those interested in being on the **Prospector's** business staff. Business staff members will play a vital part in the printing of this year's annual since revenue will drop off from last year due to the lowering in enrollment. A job on the business staff gives a man good experience in selling and gives him an extra curricular activity that is not only profitable, but interesting.

## "M" Club Sponsors Homecoming Dance

Second only to the game of the day in importance, the Homecoming dance will be held the night of Saturday, October 27, with Bill Petrie's band furnishing the melodies in Guggenheim auditorium.

Although tickets may be purchased at the door for \$1.50 per couple, Miners with the season dance ducats will make a real financial saving. These all-school dance tickets may be purchased from any Blue Key member, or they can be obtained at the door for the same price of \$5 for six all-school functions.

The Homecoming M club sponsored dance promises to be one of the biggest and best events of the year. Miners, get your dates and plan to make it to the first all-school dance of the year.

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# SENIORS MAKE PLANS FOR ONE WEEK OF REAL LIVING ON THE OUTSIDE

(Continued from page 1)  
where they will spend Monday night.

Tuesday morning's schedule includes a visit to the Oil Shale mine and plant at Rifle, where the largest part of the day will be spent. A stay in Grand Junction is planned for that night.

Wednesday's trip will consist of observation of the Climax Uranium Co.'s operation near Gateway, Colorado, thence back to Grand Junction.

A gold dredging operation will be toured Thursday near Fairplay and this will conclude the mines to be visited. The group, consisting of 24 men plus the professors, will be back in Golden on Thursday night.

**Petroleum Geologists to See Utah**  
This year's petroleum geology senior trip has been organized by Professor W. D. Matteer, and Dr. L. W. LeRoy of the geology department. They will take 40 Miners to points in Colorado and Utah where many types of petroleum geology operations can be observed.

On the way to Vernal, Utah, which will serve as headquarters for the group, they will observe workings at the Rangely oil field and the American Gilsonite Co., a subsidiary of the California Co. At the gilsonite mine the solid hydrocarbon is mined and inserted in crude oil pipe lines that go to Salt Lake City.

Statigraphy of the Uinta mountains in Utah will be studied on the trip over. West of Vernal an asphaltic sand deposit will be observed after which the oil shale operations at Rifle will be studied. The return to Golden is scheduled for Friday night.

**Miners to Visit Raton**  
Monday, October 14, 50 coal and metal miners will leave on their senior inspection trips. George Heim, G. T. Bator, and A. M. Keenan will accompany the students.

The miners will journey to Raton, New Mexico, where they will visit a coal mine and preparation plant of the St. Louis, Rocky Mountain, and Pacific Coal Company. Tuesday, they will leave Raton and travel to Cripple Creek, Colorado. Here they will inspect the Ajax gold mine and Carlton mill of the

Golden cycle corporation.

The miners will travel to Monarch, Colorado, on Wednesday. After looking over the Monarch quarry of the Colorado Fuel and Iron corporation, they will go on to Ouray. While at Ouray the seniors will visit the mine and mill of the Idarado mining company. Friday they will inspect the South Platt dredging operation at Fairplay, Colorado, and later in the day travel back to Golden. The miners will be carried to these various mines by means of two chartered buses. The cost of the trip is \$50.

**Senior petroleum men number 55**  
On Monday, Oct. 15, 27 refining, and 28 production men will start off on the fall senior trip, accompanied by Professors J. O. Ball and C. F. Barb. They will undertake the five-day trip in their own cars, and their attendance will be checked at every stop.

On Monday, they will visit the

Public Service Co.'s Mesa station north east of Fitzsimons at 9 a. m. They will then proceed to the North Denver control station, east of the Oriental refinery, and from there to the North Denver meter station. At 1:30 p.m. they shall meet at the South Denver meter station on South Colorado Boulevard.

Tuesday, will see the petroleum men at the Gates Rubber Co.'s plant at 999 South Broadway. They will stay there all day, and will receive complimentary lunches served by the company.

After visiting building 1-B of the Denver Federal Center, on Thursday morning at 9 a.m., the petroleum men will separate again. The refiners go to the Colorado State Highway Department's laboratory at 1370 Kramaria, in East Denver at 1 p.m., while the production men visit the General Iron Works.

Friday, Oct. 19, will see the petroleum men united again.

when they go through the Wyco Pipe Line Products terminal at Dupont on Brighton Road, north of Denver. In the afternoon, both groups, under the direction of Mr. Gunson, will see the Sewage plant on the Platte river. They will travel North Washington street to 50th, turn east, and proceed about half a mile to the plant.

Thirty-three seniors are preparing this week for the fall senior inspection trip of the Department of metallurgy. The week-long jaunt hops to a start next Monday with daily plant inspections scheduled throughout the week.

Faculty members in charge of the eight plant tour will be Professors A. P. Wichmann, S. L. Smith, and P. H. Anderson.



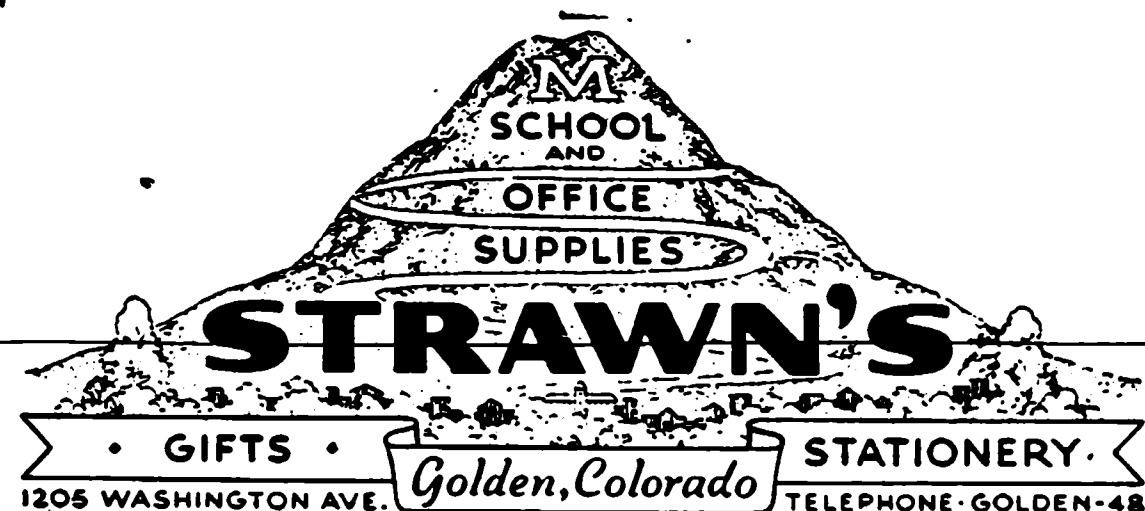
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# Plans Made For All-School Beer Bust Following Rally

by Bill Lyster

Once in a great while a few of the more important Miners get together and decide it's time for an all-school beer bust. Any Miner who doesn't like a good brew now and then does not need to come to these all-school parties, but for the most part no Miner likes to see the golden product of the Golden breweries go to waste.

I've heard them say that the water that you get here at the fraternity houses on the campus is unsafe. In fact, I overheard the military department talking to some basic student about the precautions taken against this unsafe condition.

"Well, the first thing we do is filter it."

"Yes."

"Then we boil it."

"Yes."

"Then we add chemicals to it."

"Yes, and then you can drink it."

"No, then we drink beer."

The next question you may ask "Now that I know the water is unsafe, where can I find my beer?"

Now to the punch line of this story and the answer to your thirsty quests. Mines will have its first all-school beer bust on Thursday, October 11, after the all-school rally at 6:45 p.m. The location of the beer, as it is well hidden, will be announced at the rally Thursday night with no kegs to be tapped until after the rally.

The beer will be donated by the social fraternities on the Mines campus and by the Barb organization. There will be enough beer for all, but don't hesitate or some big senior might drink your share.

That reminds me of a Miner I saw the other night after the football game. (This has nothing to do with the beer bust, but I thought it might be interesting to my mother.) This Miner was walking up 17th street in Denver and was buttonholed by a character who said:

"Shay, can you tell me where to find Alcoholics Anonymush?"

"Why? Do you want to join?"

"No. Wanna resign."

Then there was the fellow whose mother used to call up every Saturday night and ask about her son.

"No, your shon's not drinking."

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## AIME Will Gather On Thursday Night

Mines AIME student chapter will hold their regular monthly meeting Thursday night at 7 p.m. in room 179 of the mining building. Featured on the program will be two motion pictures of Caterpillar earth-moving equipment as employed in open-pit operations. A Caterpillar representative will be present to give a brief talk and to answer questions pertaining to the films.

As part of a membership drive by the organization, Norman Zehr, chapter president, is making short talks to junior metallurgy and mining classes this week to outline AIME aims and the benefits derived from membership. At the last meeting 12 men applied for membership.

Doughnuts and hot coffee will be served after the meeting.

## FREEDOM CRUSADE WILL BEGIN TODAY

Mines will have its Crusade for Freedom drive starting today and ending Thursday. The drive is under the able direction of the Blue Key honorary service organization. Money collected will be used for building broadcasting stations throughout Europe and Asia. These stations will transmit the ideas of democracy to communist-dominated countries. Blue Key has set its quota at 25 cents per man, and a Blue Key representative will be stationed near the bulletin board in Guggenheim hall to collect the donations. The social fraternities on the campus have agreed to each donate a lump sum to help get the drive underway.

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## THE DU PONT DIGEST

## M.E.'s AT DU PONT

Diversity of chemical products spells opportunity for the mechanical engineer

Students of mechanical engineering sometimes assume there is little opportunity for them in the chemical industry. In fields where products are made in more or less standardized equipment, this may be so.

But in a company like Du Pont which operates in many fields of industrial chemistry—where products are made at pressures over 15,000 pounds per square inch as well as in vacua low as two millimeters of mercury—mechanical engineers are in heavy demand.

What jobs do they fill at Du Pont? Literally hundreds, not including the normal run of mechanical engineering work such as design of standard equipment, scaling up from blueprints, etc.

For example, here are some of the problems encountered in the manufacture of nylon yarn alone:

1. Nylon polymer, a poor thermal conductor, is melted by a contact sur-



The compression stages of these 50 ton day hypercompressors 15,000 p.s.i. for nitrogen, hydrogen, etc., were designed by Du Pont mechanical engineers.

face grid at 550°F. The polymer decomposes slowly at this temperature, and there is a major heat-transfer problem. Many types of melting grids had to be designed before one proved satisfactory.

2. The molten polymer is pumped to spinnerets under pressures over 1000 pounds per square inch. With nylon as the only lubricant, the pumps must operate continuously at 550°F. Specialized problems in sealing, gasketing and materials of construction are inherent in this operation.

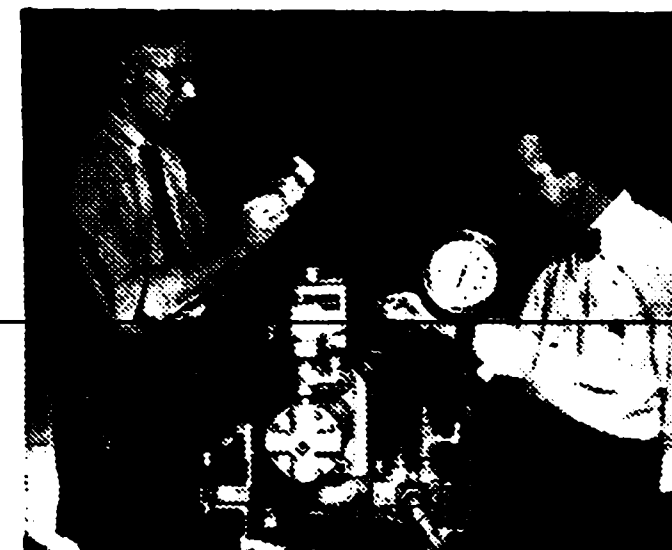
3. The melt is forced through multiple holes (diameters of 7 to 22 thousandths of an inch) in a special alloy disc. They must be made to conform to "jeweler's specifications."

4. The emerging fibers are cooled in a specially designed "air conditioned" chimney. Precise control is essential in this critical operation.

5. The fibers are wound on spools at surface speeds around 1000 yards per minute. Design calls for constant change in speed so that there is no localized stretching or relaxation of the fiber.

6. Finally, the fiber is drawn about 400% and wound on spools traveling at 5000 feet per minute. Bearing lubrication and dynamic balance present important design problems.

These are but a small part of the mechanical engineering problems arising in the manufacture of a single product by only one of Du Pont's ten manufacturing departments. Literally hundreds of other products, ranging all the way from cellulose sponges to metals like titanium, present similar challenges. So long as new processes continue to be sought and old processes improved, there will be important work for the hand and mind of the mechanical engineer.



Ralph C. Grubb, B.S.M.E., Tennessee '51, and Paul D. Kohl, B.S.M.E., Purdue '46, study characteristics of a super-pressure pump (75,000 p.s.i.) designed by Du Pont engineers and made in Du Pont shops.



Heat-transfer problems in the design of new fiber-spinning equipment are investigated by J. C. Whitmore, B.S.M.E., Virginia '44, M.S.M.E., Delaware '49, and L.B. Collat, B.S.M.E., Georgia Tech '50.



Uniquely designed adapter for a screw extruder under study by Ralph J. Cavell, B.S.M.E., Purdue '49, and John F. Bouling, B.S.M.E., Purdue '41. The adapter heats, filters and forms polymer into filaments.

Send for your copy of "The Du Pont Company and The College Graduate." Describes opportunities for men and women with many types of training. Explains how individual ability is recognized and rewarded under Du Pont plan of organization. Address: 2521 Nemours Building, Wilmington, Delaware.



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# Ripe, Raunchy Rhymes And Wishy-Washy Wit

Overheard in the back row at the little theater—"Hands off, Columbus, you've discovered enough!"

SAE No. 1—What are you doing with my raincoat on?  
SAE No. 2—Keeping your suit dry.

"Was your girl pleased with the bathing suit you gave her?"  
"Yeah. You should have seen her beam when she put it on."

"Buck up, old man! Why don't you drown your sorrow?"  
"Can't. She's stronger than I am."

You've heard of the old saying, "Gentlemen prefer blondes."  
The question now is: "Do blondes prefer gentlemen?"

"Why, Henry, this isn't our baby. You've taken the wrong carriage."

"Shut up, you dope. This one has got real rubber tires on it."

Owe \$50, you're a piker.  
Owe \$50,000, you're a businessman.  
Owe \$50,000,000, you're a tycoon.  
Owe \$50,000,000,000, you're a government.

There was a man from Nantucket Who kept all his cash in a bucket.

But his daughter, named Nan, Ran away with a man.  
And as for the bucket, Nantucket.

Teacher—The word concrete means something you may see or feel. The word abstract means something you can't see or feel. Now Willie, give me an example of concrete and abstract.

Willie—My pants are concrete. Yours are abstract.

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"Why the tooth brush in your lapel?"

"It's my class pin - I go to Colgate."

"If a drunk is Souse of the Border in Mexico, what is he in France?"

"Plaster of Paris."

"Didn't your old man ever take you aside and tell you about things?"

"Sure, but there was always so much noise in the pool room that I couldn't hear him."

Judge—So they caught you with this bundle of silverware. Whom did you plunder?

Yegg—Two fraternity houses, your Honor.

Judge—Call up the downtown hotels, sergeant, and distribute this stuff.

The salesman was trying to pick up a beautiful blonde in the hotel lobby.

"Don't bother me," she said. Crushed, he said, "Pardon me, I thought you were my mother."

She said, "I couldn't be. I'm married."

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## ATOs and Betas Select New Officers

Elections were held in two Mines social fraternities last week as Alpha Tau Omega and Beta Theta Pi chose their officers for the new school year. The men elected will serve until the end of the first semester.

### Alpha Tau Omega

Harry Kent, a senior in the geology option, was chosen as worthy master of the Alpha Tau Omega group. Kent is from Los Angeles, California. The other officers elected were: worthy chaplain, Francis Gibson, junior, metallurgy, Los Angeles, California; worthy keeper of the exchequer, Edward Ziolkowski, senior mining, Ashland, Wisconsin; worthy scribe, Richard Ridley, sophomore, metallurgy, Larchmont, New York.

### Beta Theta Pi

Beta Theta Pi social fraternity elected its new officers for the semester at an election held last Monday. Douglas Waterman, a senior from Denver, Colorado, was elected president and John P. Holland, a junior from Denver Colorado, was elected to the vice-presidency. The other of-

fices filled were: house manager, John Lockridge, senior, Marshall, Missouri; secretary, Roger Burckert, junior, Oak Park, Illinois; recorder, William Burbeau, junior, East Orange, New Jersey; pledge father, William Lyster, junior, Denver, Colorado; chaplain, Samuel Boyle, senior, Chicago, Illinois; and historian, Alexander Sabitay, junior, Golden, Colorado.

## SEG Members Will Hear Rice Speak on Frontiers

This afternoon at 4:15 p.m. Mr. R. B. Rice will lecture before the Student Society of Exploration Geophysicists in room E-113, Berthoud hall.

Mr. Rice is senior physicist in the research and development department of Phillips Petroleum company, and will speak on "Remaining frontiers in the improvement of seismic prospecting."

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## Freshmen Will Elect Officers

(Continued from page 1)  
elected student body president and was chosen as class president, scholarship club president, and as secretary of the boy's club during his years at high school. Dennis is also a two year letterman and is a member of the second all-conference team in his high school football league.  
John Fidel is the fourth candidate for freshman president. He was very active in Student council work as he served three years as a member. John played two years of football and worked on both the editorial and business staffs of his school publications.  
**Four Men Nominated for Vice President.**  
Men nominated for the freshman vice presidency were William Callendar, Darr Collins, George Wales, and Donald Warner. Callendar was vice president of his sophomore class in high school, editor of his school year book, and was active in basketball, swimming, and track.  
A graduate of Needham, Massachusetts high school, George Wales participated in football, wrestling, skiing, and swimming. At Mines he is helping on the Engineers' day committee and he is a pledge of Kappa Sigma social fraternity.

In his high school, Donald Warner participated in football, basketball, track, and served on the Student council. He was a member of the letter club and the debate team.  
Darr Collins, a freshman from Hastings, New York, is also seeking the position of vice president. Collins is a pledge of the SPE fraternity on the Mines campus.  
Chosen to represent the freshman class as secretary-treasurer were Harvey Hilvitz, Gerald Johnson, Ronald McVickers, and Wesley Parker. As a member of the Student council, the wrestling and track teams, and Hi-Y,



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Harvey Hilvitz took a very active part in his high school activities. A graduate of Pueblo Centennial high school, Hilvitz served on numerous committees and represented his school at the Colorado boy's state gathering.  
During his high school days, Gerald Johnson was vice president of the Student council and was on the Minneapolis all-city Student council. Gerald was active in Hi-Y and the National Honor society, and was placed on the Minneapolis all-city honor roll.  
Ronald McVickers played football, basketball, and golf in high school, ran on the track team, and swam on the high school swimming squad. He was active in school government and in high school organizations.  
Wesley Parker graduated from Salida high school where he belonged to several organizations and acted as one of the officers in his school's government.  
**Three dance chairman candidates**  
For the office of dance chairman, the freshmen nominated Jack Coulter, Lewis House, and Richard Self. These men were all very active in their respective high schools.

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## Tau Bate Pledges Have Busy Week Doing Annual Chores

by **Howie Silver**  
Eighteen pledges of Tau Beta Pi, national honor fraternity, braved the weather last Friday morning to lay out the bent in front of Guggenheim.  
Dressed in white hats, tan shirts with white ties, white pants, and white shoes the pledges-worked in shifts to accomplish the given task. Thursday night

the members-elect took the pledge quiz, and they drank the purifying "Toast to Pluto" yesterday.  
The new members will be initiated in Boulder next Thursday night at the Tau Beta Pi national convention. Colorado university is the sponsor of the convention this year, and the Mines chapter will assist the Boulder chapter

by showing the convention delegates around the Golden campus. Members of Tau Bate from all over the country will be at Mines to see the "World's Foremost Mining School" on Friday afternoon. They will eat dinner at the St. Joseph's parish hall, in Golden, and will be entertained by the Barb Quartette after the banquet.

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# Miners Beat Western State 27-26

## Orediggers Take High-Scoring Game On Rain-Soaked, Muddy Brooks Field

### Booters Trample Colorado U. 10-0



Ron Bethurum eats up yardage around right end as Dave Brown and Bull Turner clear the way.

Mines football team won its third game in four starts with a narrow 27-26 decision over a fighting Western State eleven last Friday night. About 2000 fans braved the icy winds and a cold drizzle to watch the two teams battle in a sea of mud.

As the score would indicate, the game was close throughout. The Mountaineers went ahead 7-0 in the opening period, after Tasma recovered Ed Gaulke's fumble of a punt on the Mines 27. Seven minutes later, Ron Bethurum broke off the weak side and raced 82 yards for an Oredigger tally. The kick was blocked and Western State still led 7-6. The visitors scored again in the opening minutes of the second quarter, but Bethurum's second touchdown gallop from 20 yards out put Mines again within striking distance.

#### Four TD's Scored, None Count

Late in the second quarter, Bethurum again broke off the weak side and raced 79 yards to pay dirt, but a clipping penalty nullified the score. After two plays failed to gain yardage, Wyman punted to Western State's Malovich who scooted 70 yards to score, but a Western State clipping penalty had this play called back. On the next play from scrimmage, Tasma turned right end for another touchdown, but a holding penalty canceled the score. To wind up this comedy of errors, three plays later Mines back Loren Whitescarver intercepted a Mountaineer pass and ran 84 yards for a score, but this play was also nullified by a clipping penalty. In all, four

touchdowns were scored in eight plays, but not one went into the record.

Bob Pozzo tied it up at the beginning of the third period when he broke off tackle and outran the secondary in a 62 yard touchdown jaunt. The Blasters went out in front for the first time, with four minutes gone in the fourth quarter, when Bethurum scored his third TD and Ed Turner kicked his third extra point. The Orediggers threatened a few minutes later when they had a first down on the Western State 11 yard line, but the Mountaineers held and took possession on their own five yard line. From this point, the "Red and White" launched a drive that carried over the Mines goal line. The extra point was low and wide, and the Blasters still retained a one point edge. The game ended 40 seconds later with the score Mines 27, Western State 26.

#### Grid Comments

The Mines line play was back to its pre-Aggie level. Joe Rebeck was the defensive standout, and he was ably assisted by LeRoy Little in making the left side of the Mines line "air tight." Bethurum with three touchdowns and Ed Turner with three extra points were the big offensive players, but Bob Pozzo's 62 yard run and Ed Gaulke's hard driving short gains are certainly worth mentioning.

#### Statistics

|                  |     |     |
|------------------|-----|-----|
| First downs      | 9   | 10  |
| Yards rushing    | 295 | 186 |
| Yards passing    | 41  | 102 |
| Passes attempted | 10  | 17  |
| Passes completed | 4   | 8   |
| Punt average     | 44  | 51  |
| Fumbles          | 4   | 2   |
| Fumbles lost     | 3   | 2   |
| Penalties        | 8   | 10  |
| Yards Penalized  | 70  | 90  |

## Judo Taught to Miners By Experienced Artist

by Tom Rollins

Judo, which, translated freely, means, "the art of maximum efficiency" is a derivative of the art of Kendo, the ancient ritual of two handed sword fighting. Kendo flourished in feudal times in Japan. It became evident that a new style of combat was called for in the dangerous in-fighting. As a method of self-defense only, the science of Judo was developed. In those ancient times the name applied to Judo tactics was Yawara.

The adaptation of Yawara to modern times was performed by Professor Kano, of Japan, a member of the International Olympic committee. As the chief exponent of this art, he named it Judo, and was himself one of the two men who has ever reached the highest rank of Judo, the ninth degree.

Unique in the United States is the local arrival of Judo on the School of Mines campus. This valuable sport is now being taught on Mondays, Thursdays, and Saturdays in the gymnasium. Under the tutelage of Isao Uchi, a Miner who holds the order of the Black Belt in Judo, instruction in Judo is now recognized for physical training credit by the athletic department.

Uchi has trained four men from the apprentice class to the Brown belt grade in the sport and these men along with two other Miners who received training in Hawaii and New York act

as instructors for the novices who turn out for schooling in this art of self-defense.

**Future Matches Planned**  
Future promotion matches between Mines and the Denver Police, who have a school of Judo in connection with their work, are being negotiated by Uchi in order to bestow recognition on the sport at Mines. Also, tentatively the University of Denver and Colorado university are being sought as opponents if they succeed in setting up classes in Judo as is being attempted at these two schools.

Explanation of this sport calls for the statement that strength is not a factor in the development of expertness of execution of correct Judo. Instead, the development of muscular co-ordination and the proper use of leverage are the components used. Cooperation of mind and muscle along with the theorem that minimum of exertion equals maximum efficiency are the crux of Judo.

Mathematically set up, Judo boils down to the fact that a Judo

be denied, Ponce drove in and scored our third goal from eight yards out, but he was hurt on the next play and was replaced by Barretto.

With two minutes of play left in the first half, Zakhmi, a half-back, booted a long one from 25 yards out that caromed off the goal post and in. As the first half ended, the "Blue and Silver" held a four goal advantage.

When the second half began, Mines had some new men in the

## IM Football Will Give Close Competition Again

With a full schedule on the slate last week, the intramural football program continued along in high gear. A number of teams remained in the unbeaten, untied class and give promise of making the race for the crown one of the closest and most exciting in recent years. All teams play a very tough 11-game schedule which will make for many upsets during the season, so it would be foolhardy to try to pick a winner at this early date.

However, the strong Beta crew shows much of the strength which has carried them to the crown in the past two seasons. During the past week they swept past a hardfighting but out-gunned Barb No. 2 squad by a one sided 53-0 count. With Paul Hinrichs tossing to Doug Waterman, the Beta men completely dominated the game.

The men from the ATO house remained atop the race with a 20-6 victory over the Pi Kaps. Dunn Krahl scored 2 TD's to lead the "Hairy Chested Men" to victory. Johnson and Thomas were also instrumental in the ATO win.

The closest game of the week was a contest between the Kappa Sigs and the Barb No. 1 squad. The Kappa Sigs squeezed out a very narrow 7-6 victory when Frisch scored and Ed Roth converted the game-winning extra point. One dark spot in the KS win was the fact that Jack Easton hurt his arm and may be out for some time.

The SAE's and SPE's did not play during the past week so they will be well rested for an important tilt between the two teams which could be quite important in the outcome of the intramural race.

The Theta Chi seven went down to defeat last week to the Sigma Nu squad by a 12-0 score. Although shut out, the Theta Chi's show promise and before the season is over, the team, led by Jim Foster, Russ Nelson, and Tom Sterrett, should be able to make it tough for the best team in the league.



Bob Pozzo, tailback

## IM GAMES THIS WEEK

The games to be played this coming week are:

- Oct. 9: ATO vs Beta, 3:50; Barb 1 vs Barb 4, 4:40.
- Oct. 10: Barb 2 vs Beta, 3:50; SPE vs KS, 4:40.
- Oct. 11: SN vs Pi K's, 3:50; Theta Chi vs Beta, 4:40.
- Oct. 15: Barb 1 vs Barb 2, 3:50; ATO vs Barb 3, 4:40.

Prosecutor—Now tell the jury, the truth please. Why did you beat your husband with a bow and arrow?

Defendant—I didn't want to hurt the children.

Continued on page 10



# Old Stars Will Leave Baseball After This Year's Participation

by Bill Burbeau

As football takes over the spotlight in sports during the fall of the year, baseball must take a back seat. However, in the winter the baseball fan talks over who will be back and who will star next year. This is sort of a preview of those topics for discussion.

This year has been the last for such veterans as Bobby Doerr of the Boston Red Sox. After many injuries he has realized that old age has caught up with him. His team mate, Lou Boudreau, is fast nearing the end of his playing days. To the Boston Red Sox this will mean a new line-up which might make them win a few more ball games so that they will become real pennant contenders.

**Dimaggio Will Leave**  
By all indications, the champion Yankees will lose one of their immortals, Joe Dimaggio. Joe has been slipping at the bat with a low average around .260 this year; however, his grace and ability in the outfield is unsurpassed. Joe is 36 years old and has played in ten world series during his 15 years as a Yankee. The Yankees, like other clubs, will have to get young ballplayers like McDougald and Mantle that played this year. Other veterans that are getting old include two of their first basemen, Johnny Mize and John Hopp, both were thought to be washed up when they came to the Yankees but proved differently.

Chicago and Cleveland have few worries from aged ball players. Both teams are intact for next year with the possible exception of Phil Masi, the White Sox catcher. Cleveland has many potential greats like Luke Easter, Al Rosen, and Larry Doby who were hampered by injuries this season. Next year they will be up there with one of the best pitching staffs in the business including three 20-game winners from this year plus Bob Lemon.

## Brownies Might Be Strong

The St. Louis Browns, who appear to be a welcome mat that the rest of the league walks over, are bound to come to life with Bill Veeck as one of the owners. He is a sharp trader, has plenty of money and has one of the finest pitchers in the league in

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young Ned Garver, a 20-game  
winner. Watch out for the De-  
troit Tigers as their star pitcher  
of two years ago, Art Houtteman,  
will be back next year. This  
might be the spark to make De-  
troit a pennant contender.

In the National League, the  
Brooklyn Dodgers and the New  
York Giants will not lose any of  
their starters. However, I don't  
believe Preacher Roe will have  
the great season he had this year.  
Eddy Stanky of the Giants and

(Continued to page 10)

# SOCER PLAYERS RUN UP TERRIFIC SCORE AGAINST CU

(Continued from page 8)

lineup Vincent Rex replaced  
Salter at right wing. Russ Check  
came in for Wendeborn at de-  
fense. Nogales and Lorenz switch-  
ed positions, Lorenz moving back  
to defense, and Nogales coming  
up to center half.

A few minutes after play was  
resumed Barretto counted from  
ten yards out on a play set up by  
Rex and Zakhmi. Right after  
scoring our fifth goal, Barretto  
gave us an even half dozen on an  
unassisted scoring play. Five  
minutes later Barretto completed  
the "hat trick" (scoring three  
goals in one game).

Half way through the period  
Thomas, Barretto, and Douze  
kept the ball moving among them  
for half the length of the field  
and at the ten yard marker.  
Thomas rifled one past the be-  
wildered goalie. The score was  
an insurmountable 8-0.

The prettiest shot of the day

was made by Rex about ten min- from the 15 yard line, at a very  
utes before the final gun sound- aough angle, that skidded off  
ed; Vince rocketed a line drive the goal post and in.

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Dw. Ridley, Rod Thomas, Philip  
Pennington, Herbert Harvey, and  
Jack Tyndall.

# Willie Mays Predicted to Be Rookie of Year Age-Old Sport Is New School Activity

(Continued from page 9) Power Reese of the Giants are getting old and their big league days are numbered, but they will be around a while longer. The Boston Braves are slowing down but still have a lot of power. Bob Elliott and Walker Cooper are not the ball players they used to be. The bright spot in Boston is the two young pitchers, Chet Nichols and Jim Wilson, who won many ball games toward the end of the season along with Warren Spahn, the 20-game winner.

## Cards Will Need New Men

The St. Louis Cardinals are in desperate need of new, young ball players. This year Enos Slaughter and Harry Brecheen started fading, only because of their age, but several promising young pitchers came up in the form of Joe Presko and Dick Bokelmann. Stan Musial and

Red Schoendienst are the only stars remaining and they are passing their prime.

The Cubs, Phils, Reds, and Pirates need new ball players. With Branch Rickey in Pittsburgh, the possibilities of the Pirates coming forth is very likely. It may not be immediately but in several years they will be right at the top.

## Who Will Be Rookie of the Year?

As for the rookie of the year, my guess is Willie Mays of the Giants in the National League. Willie is a great fielder and a good hitter although he was in a slump at the close of the season. The 20-year old center fielder is fast and has a great throwing arm. In the American League it looks like Orestes Minoso of the White Sox, although there is possibility of Gil McDougald of the Yankees winning

the honors. Minoso led the league in hitting a good portion of the season and ended the year hitting around .325.

## KAPPA SIG INITIATES

Recently Kappa Sigma, national social fraternity, initiated several new men into the ranks of their active chapter on the Mines campus.

The initiated men are Richard Veghte, a sophomore in petroleum production; Robert Root, a mining sophomore; and Ronald Akins, a junior in metal mining.

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(Continued from page 8) nothing by its use, but the defender is adequately protected by its use. Uchi, teaching Kodo Kan which is the principal school of Judo, reduces the opponents advantage of two units of strength to either zero or a minus one unit. It should be said that Judo is passive, and depends entirely on the fact that an aggressor can gain

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